

## ABSTRACT

Laser light emitted by a light emitting element is made parallel light by a collimation lens, passes through an aperture of an aperture mirror, and is then angularly scanned in a plane

5 substantially parallel to a display screen by rotation of a polygon mirror and projected onto a recurrence reflection sheet. Then, after the reflected light from the recurrence reflection sheet is reflected by the polygon mirror and aperture mirror, the light is focused by a condenser lens to enter a light receiving element. The

10 aperture mirror has an asymmetrical shape in the scanning direction and/or the vertical direction about the optical axis, according to a scanning surface opening width of the polygon mirror.

09075084, 060701